PATENT COOPERATION TREATY

	REC'D	1	7	FEB	2006	
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From the		
INTERNATIONAL	SEARCHING	AUTHORITY

To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/JP2005/009813 22.05.2004 23.05.2005 International Patent Classification (IPC) or both national classification and IPC G01R31/3183, G06F11/263 Applicant ADVANTEST CORPORATION

1.	This opinion	contains	indications	relating 1	to the	following	items:
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\boxtimes	Box No. I	Basis of the opinion
	Box No. II	Priority
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
\boxtimes	Box No. IV	Lack of unity of invention
\boxtimes	Box No. V	Reasoned statement under Rule 43 <i>bis</i> .1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	Box No. VI	Certain documents cited
	Box No. VII	Certain defects in the international application
	Box No. VIII	Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2005/009813

	Вох	No.	Basis of the opinion
1.	With the la	rega angu	ard to the language , this opinion has been established on the basis of the international application in age in which it was filed, unless otherwise indicated under this item.
		landu	opinion has been established on the basis of a translation from the original language into the following lage , which is the language of a translation furnished for the purposes of international search er Rules 12.3 and 23.1(b)).
2.	With	rega essar	ord to any nucleotide and/or amino acid sequence disclosed in the international application and by to the claimed invention, this opinion has been established on the basis of:
	a. ty	pe of	material:
] a	sequence listing
] ta	able(s) related to the sequence listing
	b. fo	rmat	of material:
] ir	written format
] ir	n computer readable form
	c. tiı	ne of	f filing/furnishing:
] c	ontained in the international application as filed.
		□ fi	led together with the international application in computer readable form.
	Γ	□ fo	urnished subsequently to this Authority for the purposes of search.
3.		has copi	ddition, in the case that more than one version or copy of a sequence listing and/or table relating thereto been filed or furnished, the required statements that the information in the subsequent or additional les is identical to that in the application as filed or does not go beyond the application as filed, as ropriate, were furnished.

4. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2005/009813

_	Вох	No. IV	Lack of unity of inv	rention			
1.					CT/ISA/206) 1	to pay additional fees, the applicant has:	
			paid additional fees.				
			paid additional fees u	nder pro	test.		
		\boxtimes	not paid additional fee	es.			
2.	2. This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.						
3.	This	s Autho	rity considers that the r	equirem	ent of unity	of invention in accordance with Rule 13.1, 13.2 and 13.3 is	
	⊠ (complie	d with				
	□r	not com	plied with for the follov	ving rea	sons:		
4.	Con	nsequer	ntly, this report has bee	en estab	lished in res	pect of the following parts of the international application:	
	□ all parts.						
	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
<u> </u>		tement					
	Nov	velty (N)	Yes: No:	Claims Claims	2-7,17, 18, 20, 21,23-30 1,16,19,22,31,32	
	inve	entive s	step (IS)	Yes: No:	Claims Claims	5-7,17,18,23-27,30 2-4, 20, 21, 28, 29	
	Ind	ustrial a	applicability (IA)	Yes: No:	Claims Claims	1-32	

2. Citations and explanations

see separate sheet

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/JP2005/009813

Citations:

D1: US2003/0217343 A D2: DE10031536 A1

Re Item IV

1 Rule 13 PCT (non-unity)

1.1 This Authority considers that there are 2 inventions covered by the claims indicated as follows:

I: Claims 1-7 and 16-32

Directed to a method and system for generating a test program by means of a test plan file, a test class file and a pre-header file.

Special technical features: cf. claims 5-7, 17-21, 23-30

II: Claims 8-15

Directed to a pre-header comprising parameter and template section for generating a test program.

Special technical features: cf. claim 12.

1.2 The two groups are not so linked as to form a single general inventive concept: The common technical feature of groups I and II is "pre-header (file) for generating a test program". The content of the pre-header is not specified in the independent claims of group I (and may be understood as any introducing text of a test program or as an un-compiled test pattern file; cf D1, Figs. 2 & 4, cf. paragraph 2.1, below). This technical feature is not novel and can therefore not be considered as common inventive concept in the sense of Rules 13.1 and 13.2 PCT.

The application, hence does not meet the requirements of unity of invention as defined in Rules 13.1 and 13.2 PCT.

Re Item V

Group I: Claims 1-7 and 16-32:

2. Article 33(2) PCT (novelty)

2.1 INDEPENDENT CLAIM 1:

D1, which is considered to represent the closest prior art, discloses a method for developing a test program for a semiconductor test system, the test system including at least one test module for applying at least one test to a device-under- test according to the test program, comprising: describing a test plan file (61 in Fig. 4) in a test program language (generated via format translation 55, the test plan file is in the compiler specific test program language), wherein the test plan file describes at least one test of the test program (cf. paragraph [0044]), describing a "test class file" (compiled pattern 66) in a system program language and a corresponding pre-header file (un-compiled pattern 62) of the test class file in the TPL, wherein the test class file (pattern 62) describes an implementation of the at least one test of the test program; and generating the test program using the test plan file, the test class file and the pre-header file (i.e. combining OBJ files 64 and 66); cf D1, abstract, Figs. 2 and 4, paragraphs [0042] - [0049].

<u>Comment</u>: The expressions "test program language", "system program language", "test class file" and "pre-header file" are not specified by characterizing technical features and thus can be read on the disclosure of D1.

2.2 INDEPENDENT CLAIM 16:

cf. paragraph 2.1, above. Validation of the silicon (cf. D1, paragraph [0069]) or compiling a program is in the same time a validation of the test program.

2.3 INDEPENDENT CLAIM 22:

This claim comprises the apparatus features of method claim 1; cf. paragraph 2.1, above.

2.4 <u>Claim 19:</u> Running/compiling a file implies "verifying semantics" (otherwise an error message is issued).

2.5 Claim 31, 32: cf D1, Fig. 4, OBJ files and link in tester hardware 68.

Consequently, the subject-matter of the claims 1, 16, 19, 22, 31 and 32 is not novel.

3. Article 33(3) PCT (inventive step)

3.1	<u>Claim 2, 28:</u>	using C/C++ as a "system program language" is well-known in the
		field of test program development.
3.2	Claim 3, 29:	are obvious in view of the compiler structure shown in Fig. 4 of D1.
3.3	Claim 4:	cf paragraph 2.2 and 3.2, above.
3.4	Claim 20, 21:	It is well-known to verify entity attributes, parameters and functional
		calls before compiling a (test) file.

Consequently, the subject-matter of the claims 2-4, 20, 21, 28 and 29 is not inventive.

4. Re Item VII and VIII

- 4.1 The number of (4 independent) claims is not reasonable in consideration of the nature of the invention claimed (**Rule 6.1 (a) PCT**).
- 4.2 The present set of claims lacks reference signs and is not in the two-part form (**Rules 6.2** (b) and **6.3** (b) **PCT**).
- 4.3 The relevant prior art documents D1 and D2 are not cited and discussed in the description (Rule 5.1 (ii) PCT)
- 4.4 In the independent claims the expressions "test program language", "system program language", "test class file" and "pre-header file" are not specified by characterizing technical features and thus are unclear. In addition, a computer program file as such is non-technical. Non-technical features are not taken into account for inventive step.